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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/772,070	02/03/2004	Shinichi Nakano	60723 (72012)	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
21874	7590 12/13/2006		EXAM	EXAMINER		
EDWARDS	& ANGELL, LLP	LEUNG, JE	LEUNG, JENNIFER A			
P.O. BOX 55 BOSTON, N		ART UNIT	PAPER NUMBER			
,			1764			
		DATE MAILED: 12/13/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)	· · · · · · · · · · · · · · · · · · ·			
		10/772,07)	NAKANO ET AL.				
Office A	Examiner		Art Unit					
		Jennifer A.	Leung	1764				
The MAILING Period for Reply	3 DATE of this communication ap	pears on the	cover sheet with the c	orrespondence ad	ldress			
WHICHEVER IS LO - Extensions of time may after SIX (6) MONTHS fi - If NO period for reply is: - Failure to reply within the Any reply received by th	TATUTORY PERIOD FOR REPL DNGER, FROM THE MAILING Doe available under the provisions of 37 CFR 1. om the mailing date of this communication. specified above, the maximum statutory period se set or extended period for reply will, by statute office later than three months after the mailing strength. See 37 CFR 1.704(b).	DATE OF TH 136(a). In no eve will apply and will be, cause the appli	IS COMMUNICATION nt, however, may a reply be time expire SIX (6) MONTHS from cation to become ABANDONEI	N. sely filed the mailing date of this c D (35 U.S.C. § 133).				
Status								
1) Responsive t	o communication(s) filed on 27 M	Vovember 20	006	•				
· <u> </u>	Responsive to communication(s) filed on <u>27 November 2006</u> . This action is FINAL . 2b)⊠ This action is non-final.							
<i>'</i> _								
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims	·	,	•					
· <u> </u>								
	Claim(s) <u>1-8</u> is/are pending in the application. 4a) Of the above claim(s) <u>1 and 8</u> is/are withdrawn from consideration.							
	4a) Of the above claim(s) <u>I and 8</u> is/are withdrawn from consideration. Claim(s) is/are allowed.							
· · · · · · · · · · · · · · · · · · ·	☐ Claim(s)is/are allowed. ☐ Claim(s) <u>2-7</u> is/are rejected.							
	is/are objected to.							
,	== is/are objected to: are subject to restriction and/or e	election requ	rement					
0) <u>23</u> Olaii11(3) <u>1-0</u>	are subject to restriction and/or e	Sicolion roqu	romont.					
Application Papers								
9) The specifica	ion is objected to by the Examin	er.						
10)⊠ The drawing(s) filed on <u>03 February 2004</u> is/are: a) accepted or b)⊠ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.	C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 								
 Copies 	3. Copies of the certified copies of the priority documents have been received in this National Stage							
• •	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
	's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2-3-04. 5) Notice of Informal Patent Application 6) Other:								

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DETAILED ACTION

Election/Restrictions

1. Applicant's election of claims 2-7 in the reply filed November 27, 2006 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Claims 1 and 8 are withdrawn from consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 16 (see FIG. 1).

Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

3. Claim 1 is objected to because "rector" (line 1) should be changed to --reactor--.

Appropriate correction is required.

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 2-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 2, it is unclear as to the structural limitation applicant is attempting to recite in lines 2-10, beginning with, "... wherein a developer is manufactured by the steps of: ...", because said limitation is directed towards a process, and the various components and fluids recited in the claim are not considered part of an apparatus.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claim 2-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Kamiwano et al. (JP 11-047572).

Regarding claims 2 and 3, Kamiwano et al. (FIG. 1, 2; Abstract; Machine Translation) discloses an apparatus comprising: at least a reactor (vessel 1), a jet mechanism (nozzle 24), and a mechanism connecting therebetween (line 21, valve V6), wherein the reactor provided with at least a stirring mechanism (rotating body 8, agitator 13) and a mechanism for discharging the dissolved components (delivery port 5) has a developer material carrier comprising a plurality of

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meshes (screens 10 and 11). Please note that the process steps recited in lines 2-10 of claim 2 add no further patentable weight to the apparatus claims.

Regarding claim 4, the developer material carrier (comprising screens 10, 11 and tube 9) has a stirring mechanism 8 incorporated therein (see FIG. 1).

Instant claims 2-4 structurally read on the apparatus of Kamiwano et al.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kamiwano et al. (JP 11-047572) in view of Inoue (EP 0 526 699).

Kamiwano et al. is silent as to the developer material carrier 10,11,9 being rotatable, such that the carrier rotates together with the stirring mechanism 8,13; rotates in reverse relative to the rotation direction of the stirring mechanism 8,13; or functions as a stirring mechanism. Instead, the developer material carrier 10,11,9 of Kamiwano et al. is fixed.

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Inoue teaches a tank 6 containing a developer material carrier 9, wherein the carrier 9 is fixed (see FIG. 1; column 3, line 14 to column 4, line 44). Additionally, Inoue teaches that instead of a fixed carrier, the carrier 24 (see FIG. 4; column 4, line 55 to column 5, line 40) may be rotatable, such that the carrier 24 is capable of rotating together with the stirring mechanism 21,23; capable of rotating in reverse relative to the rotation direction of the stirring mechanism 21,23 (as evidenced by the provision of the carrier 24 and the stirring mechanism 21,23 on two separate shafts 22,25; see rotation arrows in FIG. 4); or functions as a stirring mechanism.

It would have been obvious for one of ordinary skill in the art at the time the invention was made to configure the developer material carrier in the apparatus of Kamiwano et al. to be rotatable, as claimed, on the basis of suitability for the intended use thereof, because the provision of a rotatable carrier in addition to a rotatable stirring mechanism allows for increased shearing, and the material is thereby processed uniformly and fast, as taught by Inoue (see column 5, lines 11-25).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer A. Leung whose telephone number is (571) 272-1449. The examiner can normally be reached on 9:30 am - 5:30 pm Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn A. Caldarola can be reached on (571) 272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jennifer A. Leung

December 6, 2006

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